



PATENT ABSTRACTS OF JAPAN

(11) Publication number: **09247911 A**(43) Date of publication of application: **19.09.97**

(51) Int. Cl.

H02K 16/00
H02K 19/10(21) Application number: **08075179**(22) Date of filing: **05.03.96**(71) Applicant: **NIPPON ELECTRIC IND CO LTD**(72) Inventor:
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(57) Abstract:

PROBLEM TO BE SOLVED: To lessen a ripple and extract large torque by connecting n-pieces of modules through a rotary shaft, with a single-phase 2-2 topology SR motor being one module, and forming salient poles in stators or rotors, with the salient poles in one stator or rotor being shifted from those in another stator or rotor.

SOLUTION: Both a first module and a second module are single-phase 2-2 topology SR motors. They are connected through one and the same rotary shaft 10 to constitute a pair of SR motors. The first and the second module have stators, each of which has two salient poles 1, 2 or 11, 12. The salient poles of the stator which constitutes the first module and the salient poles of the stator which constitutes the second module are formed, being shifted by 90°, in yoke sections 7, 8 and 17, 18. By this method, the modules can rotate continuously through the rotary shaft and thereby large torque can be taken out and a torque ripple can be reduced.

